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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/049,808	02/19/2002	Kenichi Shiraishi	740670-272	6189

31780 7590 08/04/2004

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EXAMINER

BOCURE, TESFALDET

ART UNIT	PAPER NUMBER
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2631

DATE MAILED: 08/04/2004

5

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary

Application No.

10/049,808

Applicant(s)

SHIRAIISHI ET AL.

Examiner

Tesfaldet Bocure

Art Unit

2631

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 19 February 2002.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-13 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☒ Claim(s) 1-5 and 7-13 is/are allowed.
- 6) ☒ Claim(s) 6 is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☒ The drawing(s) filed on 19 February 2002 is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some * c) ☐ None of:
- ☐ Certified copies of the priority documents have been received.
 - ☐ Certified copies of the priority documents have been received in Application No. _____.
 - ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).
- * See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- 1) ☒ Notice of References Cited (PTO-892)
- 2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
- 3) ☐ Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)
Paper No(s)/Mail Date _____
- 4) ☐ Interview Summary (PTO-413)
Paper No(s)/Mail Date. _____
- 5) ☐ Notice of Informal Patent Application (PTO-152)
- 6) ☐ Other: _____

DETAILED ACTION

Priority

1. Acknowledgement of the priority papers under 371 has been differed because the papers in the filed do not match to the current application. The papers in the file belong to JP/00/06383 instead of JP/00/06838.

Information Disclosure Statement

2. The front file shows as if the office received an Information Disclosure Statement (IDS) on 2/19/02. However, such an IDS is not in the file and Examiner is kindly requesting Applicant to provide such an IDS.

Drawings

3. Figures 15-17 should be designated by a legend such as --Prior Art-- because only that which is old is illustrated. See MPEP § 608.02(g). Corrected drawing sheets are required in reply to the Office action to avoid abandonment of the application. The replacement sheet(s) should be labeled "Replacement Sheet" in the page header (as per 37 CFR 1.84(c)) so as not to obstruct any portion of the drawing figures. If the examiner does not accept the changes, the applicant will be notified and informed of any required corrective action in the next Office action. The objection to the drawings will not be held in abeyance.

Claim Rejections - 35 USC § 112

4. The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter, which the applicant regards as his invention.

1. Claim 6 is rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

It is not clear from the claim whether the claimed subject matter in claim 6 is a method or an apparatus claim.

Claim Rejections - 35 USC § 102

2. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(b) The invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

3. Claim 6 is rejected under 35 U.S.C. 102(b) as being anticipated by Applicant's Stated Own Prior Art fig. 15.

Applicant's Stated Own Prior Art (ASOPA hereinafter) teaches a receiver, fig. 15, for receiving an I and Q signals within the received IF frequency to be converted to a baseband signal (see output from element 71) having frequency error comprising: a frequency error calculating device (77) for calculating the frequency error of the frame sync. Signal in the received base band signal; and AFC 79, loop filter 78 and phase

error detector 76 for generating a frequency and phase error to correct the phase and frequency of the carrier frequency at oscillator 70 as in claim 6.

Allowable Subject Matter

4. Claims 1-5 and 7-13 are allowed.

5. The following is a statement of reasons for the indication of allowable subject matter: The claimed subject matter in claims 1-5 and 7-13 are allowable because the prior arts of record fail to teach or fairly suggest the claimed "a synchronization acquiring circuit for receiving a baseband signal transferred as an intermediate frequency signal by down converting intermediate frequency signal obtained by down-converting a received radio wave and for acquiring a radio frequency channel comprising a plurality of pattern detection means (5-1 to 5-3 in fig. 3 and 54-1 to 54—5 in fig. 8), claimed in claims 1 and 7, disposed in parallel each (claimed first, second and third pattern detection means in claims 2 and 13, and first through fifth pattern detection circuit means in claim 8) performing an operation of receiving the baseband signal transferred by the intermediate frequency signal of a different frequency range (the claimed base band signal having a predetermined frequency range, higher frequency range and lower frequency range in claims 2,8 and 13) and detecting predetermined frame synchronization pattern and in combination with the carrier recovery means (50 and 56-59) as in claims 1,2,7,8 and 13."

Conclusion

6. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. US patent number 5,953,649 issued to Junell discloses a receiver having frame sync detecting circuit for in recovering the carrier.

7. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Tesfaldet Bocure whose telephone number is (703) 305-4735. The examiner can normally be reached on Mon-Thur (7:30a-5:00p) & Mon.-Fri (7:30a-5:00p).

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Mohammad H Ghayour can be reached on (703) 306-3034. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

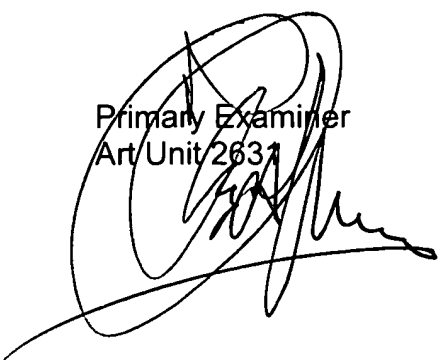
Tesfaldet Bocure

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Art Unit: 2631

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T.Bocure

Primary Examiner
Art Unit 2631

A large, stylized handwritten signature in black ink, written over the text 'Primary Examiner Art Unit 2631'. The signature is fluid and cursive, with a long horizontal stroke extending to the left.